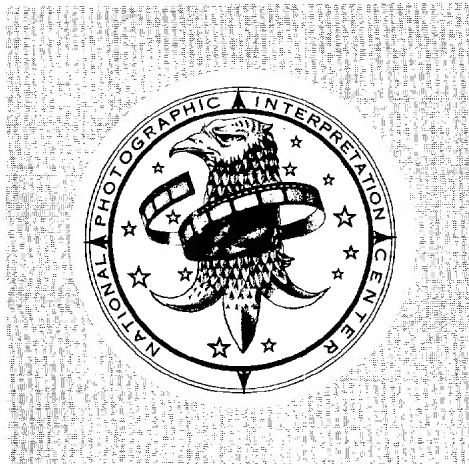


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**OAK**

**PHOTOGRAPHIC INTERPRETATION REPORT**

**KH-4 MISSION 1109**

**IPIR NUMBER 5**

**MISSION 1109-2 OAK PART II**

**12-23 MARCH 1970**

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PREFACE

PREFACE

THIS IS THE SECOND AND FINAL OAK REPORT ON MISSION 1109-2. FOR  
COMPLETE PREFACE SEE OAK PART 1, 1109-1.

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## HIGHLIGHTS

### MISSION HIGHLIGHTS

#### 1. CHINA

##### MISSILE ACTIVITY

25X1D

25X1D

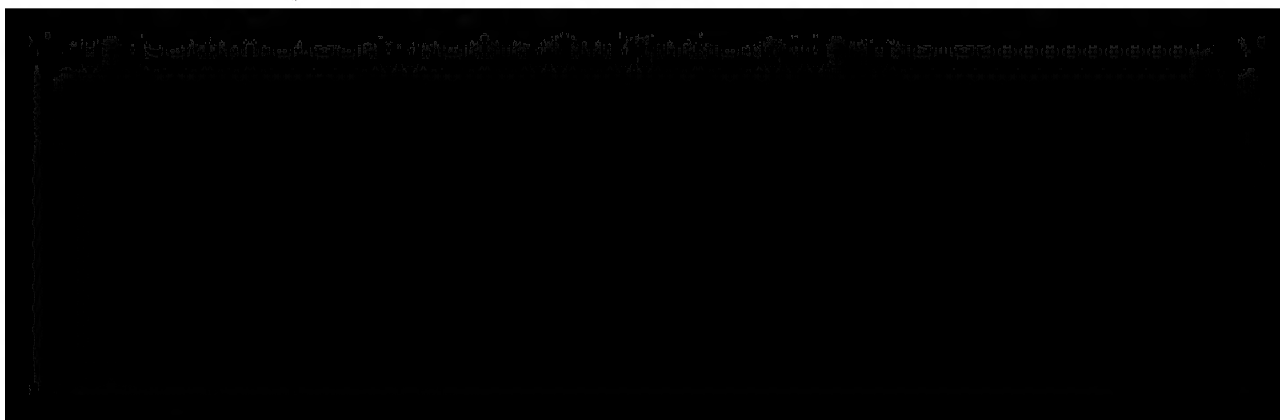
A NEWLY IDENTIFIED SURFACE-TO-SURFACE MISSILE (SSM) LAUNCH SITE IS OBSERVED 13 NM WSW OF WUCHAI, AT 38-49-██ N 111-35-██ E. IT CONSISTS OF A LAUNCH PAD MEASURING APPROXIMATELY 40 METERS (131 FEET) SQUARE, THREE VEHICLE REVETMENTS, A CONTROL BUNKER, AND A LOOP ROAD WHICH DIAGONALLY CROSSES THE LAUNCH PAD.

#### 2. USSR

##### MISSILE ACTIVITY

TWENTY-THREE LAUNCH SITES ARE NEWLY IDENTIFIED ON THIS MISSION. TWO ARE SS-9 LAUNCH SITES -- ONE IN NEW LAUNCH GROUP J AT THE UZHUR ICBM COMPLEX, AND THE OTHER AT ZHANGIZ-TOBE WHICH COMPLETES THE COMPLEMENT OF LAUNCH GROUP H. THIRTEEN ARE SS-11 LAUNCH SITES -- TEN AT THE KOSTROMA ICBM COMPLEX AND THREE AT TEYKOVO. THE REMAINING EIGHT SITES ARE TYPE IIID LAUNCH SITES AT THE PERVOMAYSK MRBM COMPLEX.

25X2



#### 3. USSR-CHINA BORDER

##### GROUND FORCE ACTIVITY

ONLY 40 OF THE PREVIOUSLY REPORTED 145 COCOONED TANKS REMAIN IN THE TANK STORAGE AREA AT BEZRECHNAYA ARMY BARRACKS AL-1 IN THE TRANSBAIKAL MILITARY DISTRICT OF THE USSR. SINCE █ FIVE VEHICLE STORAGE SHEDS HAVE BEEN CONSTRUCTED IN THE TANK STORAGE AREA. FOUR OF THESE, WHICH APPEAR TO BE

25X1D

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## HIGHLIGHTS

25X1D

25X1D STANDARD 60-VEHICLE CAPACITY SHEDS, WERE COMPLETED BY [REDACTED]

25X1D

AN APPARENT MILITARY EXERCISE IS IN PROGRESS ON [REDACTED]  
IN THE TRANSBAIKAL MILITARY DISTRICT AT TSUGOL TRAINING AREA 1  
AND TSUGOL MILITARY AREA WEST, USSR. THE ACTIVITY CONSISTS OF  
A TENT CAMP OF APPROXIMATELY 120 TENTS AND AN INCREASE OF  
APPROXIMATELY 200 VEHICLES.

### 4. MONGOLIA

#### GROUND FORCE ACTIVITY

CONSTRUCTION IS CONTINUING AT A RAPID RATE AT CHOYBALSAN  
ARMY BARRACKS SOUTH AL-1. THE INSTALLATION NOW CONTAINS 18  
BARRACKS, 16 BARRACKS UNDER CONSTRUCTION, FIVE SUPPORT  
BUILDINGS, AT LEAST 63 BUILDING FOUNDATIONS, AND APPROXIMATELY  
150 NEWLY OBSERVED TENTS.

### 5. MIDDLE EAST

#### MISSILE ACTIVITY

SEVEN NEW SA-3 SURFACE-TO-AIR MISSILE SITES ARE IDENTIFIED  
IN THE AREA OF ALEXANDRIA, EGYPT. THE LAUNCH POSITIONS AND  
GUIDANCE AREAS ARE OCCUPIED AT FOUR OF THESE SITES. THIS MAKES  
A TOTAL OF EIGHT KNOWN SA-3 SITES IN EGYPT -- FIVE CONFIRMED  
AND THREE POSSIBLE.

AN SA-2 SAM SITE IS ALSO IDENTIFIED IN THE ALEXANDRIA  
AREA.

#### AIR ACTIVITY

A NEW GRADED-EARTH RUNWAY IS UNDER CONSTRUCTION 6.2  
NAUTICAL MILES (NM) SOUTH-SOUTHWEST OF AL MANZILAH, EGYPT, AND  
21 NM WEST OF THE SUEZ CANAL. THE RUNWAY MEASURES 1,726 X 53  
METERS (5,663 X 174 FEET). PARALLEL TO THIS RUNWAY IS AN [REDACTED] 25X1D  
[REDACTED] RUNWAY OR TAXIWAY IN AN EARLY  
STAGE OF CONSTRUCTION.

25X1D

25X1D A HIGH COUNT OF FIVE BADGER BOMBERS IS OBSERVED ON [REDACTED]  
[REDACTED] AT WADI SEIDNA AIRFIELD, SUDAN. THE PREVIOUS HIGH COUNT  
25X1D OF BADGER AT THIS FIELD WAS THREE IN [REDACTED]. THE RUNWAY  
HAS BEEN EXTENDED 500 METERS (1,640 FEET) FOR A NEW LENGTH OF  
2,950 METERS (9,678 FEET).

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KH-4 MISSION 1109-2

HIGHLIGHTS

NAVAL ACTIVITY

AN INCREASE OF ABOUT 25 PERCENT ABOVE NORMAL IS NOTED IN THE COUNT OF MERCHANT SHIPS AT ALEXANDRIA (AL ISKANDARIYAH) NAVAL BASE AND HEADQUARTERS NATIONAL, EGYPT, ON [REDACTED] EIGHT-ONE MERCHANT SHIPS ARE OBSERVED, INCLUDING SIX ANCHORED OUTSIDE THE HARBOR. FOUR SHIPS ANCHORED IN THE HARBOR HAVE PROBABLE LIGHTERS ALONGSIDE. THE NAVAL ORDER OF BATTLE IS NORMAL.

25X1D

TOP SECRET RUFF

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KH-4 MISSION 1109-2

CHINA, COMMUNIST  
MISSILE RANGES

### SIGNIFICANT RESULTS

25X1D WU-CHAI SSM LAUNCH SITE 25X1A 25X1D 38-49 N 111-35 E

STATUS: OPERATIONAL

#### PHYSICAL DESCRIPTION:

13 NM WSW OF WUCHAI, 80 NM NW OF TAIYUAN, AND 225 NM WSW OF PEICHING.

THE NEWLY IDENTIFIED SURFACE-TO-SURFACE MISSILE LAUNCH SITE CONSISTS OF A LAUNCH PAD APPROXIMATELY 40 METERS (131 FEET) SQUARE, THREE VEHICLE REVETMENTS, A CONTROL BUNKER, AND A LOOP ROAD WHICH CROSSES THE LAUNCH PAD DIAGONALLY. ONE EARTH-COVERED VERTICAL STORAGE TANK IS APPROXIMATELY 120 METERS (394 FEET) TO THE SOUTH AND IS CONNECTED BY PIPELINE TO THE PAD AREA. FIVE PROBABLE VEHICLES ARE PARKED 40 METERS (131 FEET) SOUTH OF THE PAD. A LARGE EXCAVATION APPROXIMATELY 183 X 213 METERS (600 X 700 FEET) WITH ENTRANCES ON DIAGONAL CORNERS IS 900 METERS (0.5 NM) NORTH OF THE LAUNCH PAD. THREE CONSTRUCTION SUPPORT BUILDINGS AND APPROXIMATELY EIGHT PROBABLE VEHICLES ARE ADJACENT TO THE EXCAVATION.

THREE AREAS OF UNIDENTIFIED EXCAVATION AND TRACK ACTIVITY ARE 2.5 NM NORTH AND NNW OF THE PAD.

THE LAUNCH SITE SUPPORT AREA IS 1 NM SSE OF THE PAD AND CONTAINS A FENCED AREA CONSISTING OF NINE STORAGE AND SUPPORT BUILDINGS IN A DEEP NATURAL VALLEY. THE AREA ALSO CONTAINS APPROXIMATELY 25 HOUSING AND CONSTRUCTION SUPPORT BUILDINGS, 16 STORAGE BUILDINGS, AND AN OPEN STORAGE YARD. A PIPELINE OR CABLE TRENCH EXTENDS FROM THIS SUPPORT AREA, PASSES 160 METERS (525 FEET) WEST OF THE LAUNCH PAD, AND LEADS TO THE AREAS OF UNIDENTIFIED EXCAVATION AND TRACK ACTIVITY.

25X1D A NEW RAIL SPUR IS UNDER ACTIVE CONSTRUCTION FROM NINGWU  
25X1D (39-00N 112-18E) ON THE TAIYUAN--PAOTOU RAIL LINE TO THE SITE SUPPORT AREA 35 NM TO THE WEST. TENT CAMPS ARE ALONG THE RAILBED. RAIL APPEARS TO HAVE BEEN LAID ONLY AS FAR AS 39-04 N 112-06 E, APPROXIMATELY 10 NM FROM NINGWU. NEW TENT CAMPS AND SOME EARTH GRADING INDICATE THAT THE SPUR WILL BE EXTENDED BEYOND THE VICINITY OF THE SITE SUPPORT AREA TO KOLAN (38-42N 111-34E), AN ADDITIONAL 10 NM TO THE SW.

OTHER SUPPORT AREAS PROBABLY ASSOCIATED WITH THE MISSILE SITE ARE IN A SIX-SQUARE-NAUTICAL-MILE AREA IMMEDIATELY SE OF THE LAUNCH SITE SUPPORT AREA. MANY OF THESE AREAS ARE OBSCURED BY

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CHINA, COMMUNIST  
MISSILE RANGES

CLOUDS AND HAZE. AT LEAST 175 STRUCTURES (OF WHICH 60 APPEAR TO BE UNDER CONSTRUCTION), OPEN STORAGE AREAS, A VEHICLE PARK, AND A WHEELED-VEHICLE DRIVER-TRAINING AREA CONTAINING AT LEAST THREE CLOSED-LOOP DRIVER-TRAINING COURSES ARE OBSERVED. APPROXIMATELY 110 VEHICLES ARE IN THE VEHICLE PARK.

(SEE ATTACHMENT)

ASSOCIATED OBJECTS:  
123 VEHICLES  
(APPROXIMATELY)

25X1D





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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D AL ISKANDARIYAH POSSIBLE SA-3 SAM SITE 25X1A

25X1D 25X1D  
31-03-██ N 029-49-██ E

STATUS: UNDER CONSTRUCTION

PHYSICAL DESCRIPTION:

9 NM SW OF ALEXANDRIA.

THE NEWLY IDENTIFIED POSSIBLE SA-3 SITE CONSISTS OF AN ELEVATED AND REVETTED GUIDANCE AREA AND AT LEAST THREE LAUNCH POSITIONS UNDER CONSTRUCTION.



25X1D AL ISKANDARIYAH POSSIBLE SA-3 SAM SITE 25X1A

25X1D 25X1D  
30-50-██ N 030-14-██ E

STATUS: UNDER CONSTRUCTION

PHYSICAL DESCRIPTION:

28 NM SE OF ALEXANDRIA.

THE NEWLY IDENTIFIED POSSIBLE SA-3 SITE IS IN THE MIDSTAGES OF CONSTRUCTION AND CONSISTS OF A MOUNDED GUIDANCE AREA WITH TWO EQUIPMENT SHELTER ENTRANCES. LAUNCH POSITIONS ARE NOT DISCERNIBLE. HOWEVER, CONSIDERABLE GROUND SCARRING IS EVIDENT IN THE AREA OF THE SITE. AN L-SHAPED GROUND SCAR PROBABLY FOR THE ACQUISITION RADAR POSITION IS OBSERVED JUST NORTH OF THE SITE.



25X1D AL ISKANDARIYAH SAM SITE A06-3 25X1A

25X1D 25X1D  
31-15-██ N 030-01-██ E

STATUS: OCCUPIED

PHYSICAL DESCRIPTION:

7 NM NE OF ALEXANDRIA.

THE NEWLY IDENTIFIED SA-3 SITE IS OF UNDETERMINED CONFIGURATION AND CONSISTS OF FOUR REVETTED LAUNCH POSITIONS AND A MOUNDED

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

AND REVETTED GUIDANCE AREA. ALL FOUR LAUNCH POSITIONS AND THE  
GUIDANCE AREA ARE OCCUPIED.

25X1D



25X1D

25X1D

AL ISKANDARIYAH SAM SITE A10-2

31-11-███N 030-01-███E

25X1D



25X1A

STATUS: UNDER CONSTRUCTION

PHYSICAL DESCRIPTION:

7.7 NM SE OF ALEXANDRIA.

THE NEWLY IDENTIFIED SA-2 SITE CONSISTS OF SIX LAUNCH POSITIONS  
(PROBABLY UNRETTED), A MOUNDED GUIDANCE AREA, AND SIX  
MISSILE-HOLD POSITIONS. AT LEAST TEN VEHICLES OR PIECES OF  
EQUIPMENT ARE IN A PARKING AREA ADJACENT TO THE LAUNCH AREA.

25X1D



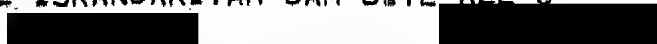
25X1D

25X1D

AL ISKANDARIYAH SAM SITE A22-3

31-03-███N 029-48-███E

25X1D



25X1A

STATUS: OCCUPIED

PHYSICAL DESCRIPTION:

9 NM SW OF ALEXANDRIA.

THE NEWLY IDENTIFIED SA-3 SITE IS OF UNDETERMINED CONFIGURATION  
AND CONSISTS OF TWO PARTIALLY REVETTED AND TWO UNRETTED  
LAUNCH POSITIONS AND AN UNRETTED GUIDANCE AREA. ALL FOUR  
LAUNCH POSITIONS AND THE GUIDANCE AREA ARE OCCUPIED.

25X1D



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UNITED ARAB REPUBLIC  
AIR DEFENSE MISSILES

25X1D

25X1D

AL ISKANDARIYAH SAM SITE A25-3

31-07-███N 029-47-███E

25X1D

STATUS:OCCUPIED

25X1A

PHYSICAL DESCRIPTION:

6 NM SW OF ALEXANDRIA,  
THE NEWLY IDENTIFIED SA-3 SITE IS OF UNDETERMINED CONFIGURATION  
AND CONTAINS FOUR REVETTED LAUNCH POSITIONS AND A MOUNDED AND  
REVVETTED GUIDANCE AREA. ALL FOUR LAUNCH POSITIONS AND THE  
GUIDANCE AREA ARE OCCUPIED.

25X1D

25X1D

25X1D

AL ISKANDARIYAH SAM SITE A33-3

31-12-███N 029-54-███E

25X1D

STATUS:OCCUPIED

25X1A

PHYSICAL DESCRIPTION:

THE NEWLY IDENTIFIED SA-3 SITE IS OF UNDETERMINED CONFIGURATION  
AND CONSISTS OF FOUR REVETTED LAUNCH POSITIONS AND AN ELEVATED  
GUIDANCE AREA. ALL FOUR LAUNCH POSITIONS AND THE GUIDANCE AREA  
ARE OCCUPIED. THE LOW BLOW RADAR APPEARS TO BE ATOP A SMALL  
FLAT-ROOFED STRUCTURE. A SECURITY FENCE HAS BEEN CONSTRUCTED  
SINCE MISSION ██████ AT THE ENTRANCE TO THE MOLE.

25X1D

25X1D

25X1D

25X1D

AL ISKANDARIYAH SAM SITE B15-3

30-51-███N 030-09-███E

25X1D

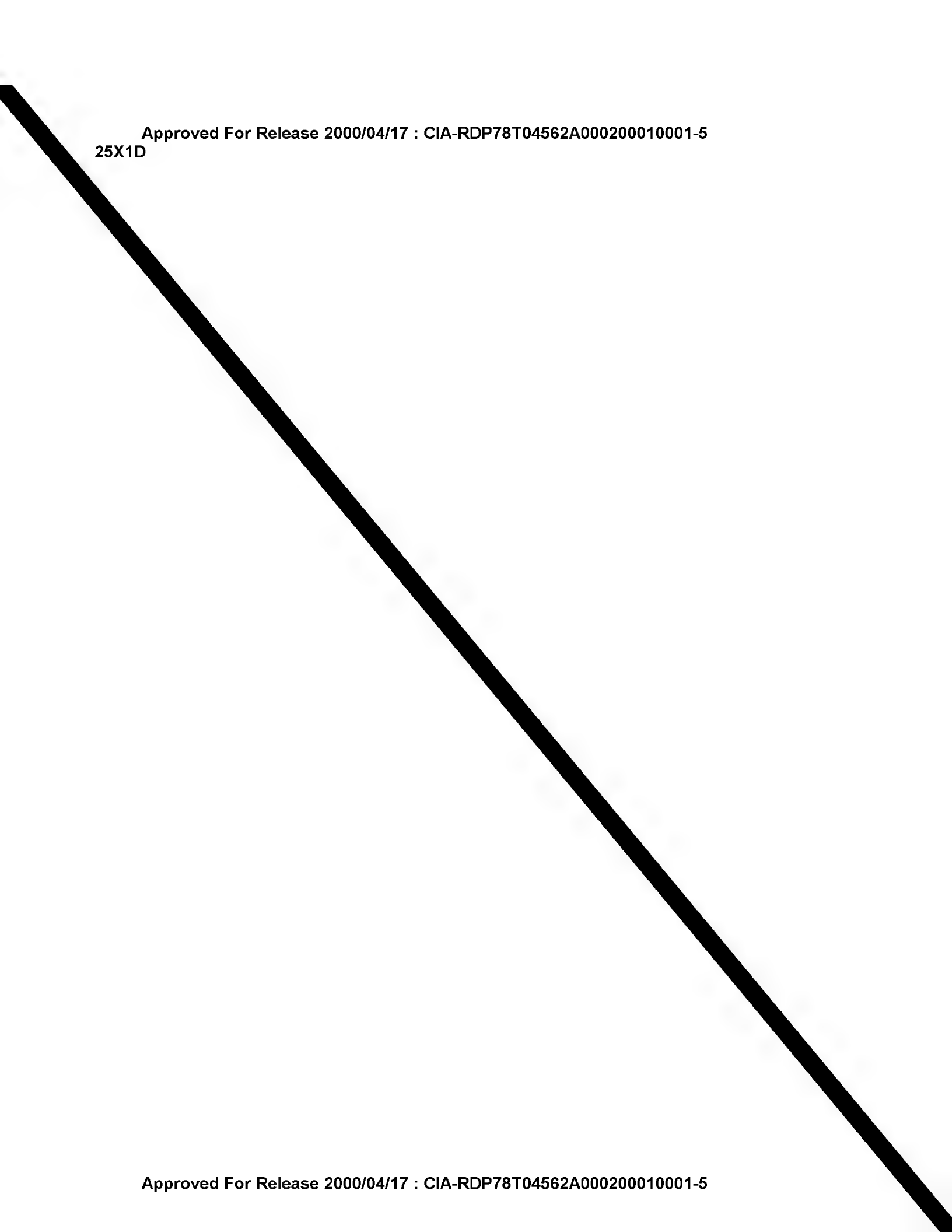
STATUS:UNOCCUPIED

25X1A

PHYSICAL DESCRIPTION:

23 NM SE OF ALEXANDRIA,  
THE NEWLY IDENTIFIED SA-3 SITE IS OF UNDETERMINED CONFIGURATION  
AND CONSISTS OF FOUR REVETTED LAUNCH POSITIONS, AN ELEVATED  
REVVETTED GUIDANCE AREA, AND AN ACQUISITION RADAR MOUND. THE  
SITE IS UNOCCUPIED.

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25X1D



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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

AL MANZILAH AIRFIELD

25X1A

25X1D

25X1D

31-03- [REDACTED] N 031-54- [REDACTED] E

25X1D

STATUS: UNDER CONSTRUCTION

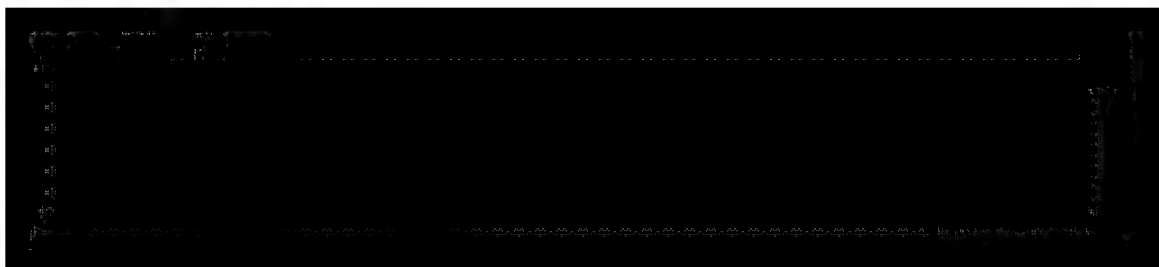
PHYSICAL DESCRIPTION:

25X1D

6.2 NM SSW OF AL MANZILAH AND 21 NM WEST OF THE SUEZ CANAL. A  
1,726 X 53-METER (5,663 X 174-FOOT) NW/SE GRADED-EARTH RUNWAY  
IS UNDER CONSTRUCTION. IMMEDIATELY SOUTH OF THIS RUNWAY IS AN  
[REDACTED] WNW/ESE RUNWAY OR TAXIWAY IN  
THE EARLY STAGES OF CONSTRUCTION.

AIR ORDER OF BATTLE:  
NONE PRESENT

25X1D



25X1D

25X1D

AL MINYA AIRFIELD

28-06- [REDACTED] N 030-43- [REDACTED] E

25X1D

STATUS: OPERATIONAL

AIR ORDER OF BATTLE:

25X1D

25 SMALL STRAIGHT-WING (AT  
LEAST)

25X1D

9 POSS SMALL AIRCRAFT

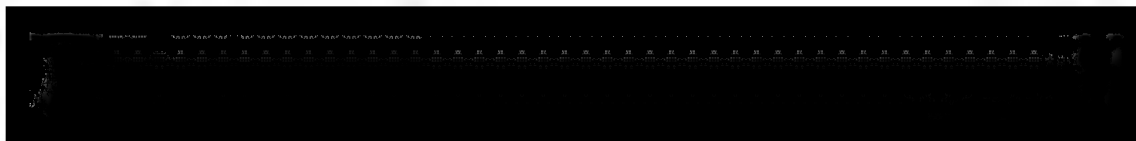
25X1D



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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

25X1D



25X1D

25X1D

BENI SUEF AIRFIELD

25X1D

25X1A

29-11- N 031-01- E

STATUS: OPERATIONAL

AIR ORDER OF BATTLE:

1 BADGER (IN SHELTER)

2 PROB AIRCRAFT (AT LEAST)

2 CAT/CUB/CAMP

8 POSS SMALL AIRCRAFT

1 SMALL SWEEP/DELTA-WING

25X1D



25X1D

25X1D

BIR JIFJAFAH AIRFIELD

25X1D

25X1A

30-24- N 033-09- E

STATUS: OPERATIONAL

25X1A

REMARKS:

CONSTRUCTION CONTINUES ON THE HANGARETTES.

AIR ORDER OF BATTLE:

5 SMALL DELTA-WING

3 SMALL STRAIGHT-WING

1 POSS SMALL DELTA-WING

3 PROB HELICOPTERS

1 SMALL SWEEP-WING

25X1D



25X1D

25X1D

FAID AIRFIELD

25X1D

25X1A

30-19- N 032-16- E

STATUS: OPERATIONAL

25X1A

REMARKS:

ONE OF THE DOUBLE-BAY HANGARETTES REPORTED IN  
IS STILL UNDER CONSTRUCTION AND HAS NOT BEEN EARTH

25X1D

25X1D

TOP SECRET RUFF

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UNITED ARAB REPUBLIC  
AIR BASE FACILITIES

COVERED.

AIR ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D



25X1D

25X1D

25X1D

HURGHADA AIRFIELD NEW

25X1A

27-11-███ N 033-47-███ E

STATUS: OPERATIONAL

25X1A

REMARKS:  
CONSTRUCTION CONTINUES IN THE SUPPORT AREAS.

AIR ORDER OF BATTLE:  
2 POSS SMALL AIRCRAFT

25X1D



OTHER RESULTS-NO APPARENT CHANGE

25X1D

25X1D

25X1D

ABU SUWAYR AIRFIELD

30-34-███ N 032-06-███ E

STATUS: OPERATIONAL

25X1A

AIR ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D



25X1D

25X1D

25X1D

KABRIT AIRFIELD

30-14-███ N 032-29-███ E

STATUS: OPERATIONAL

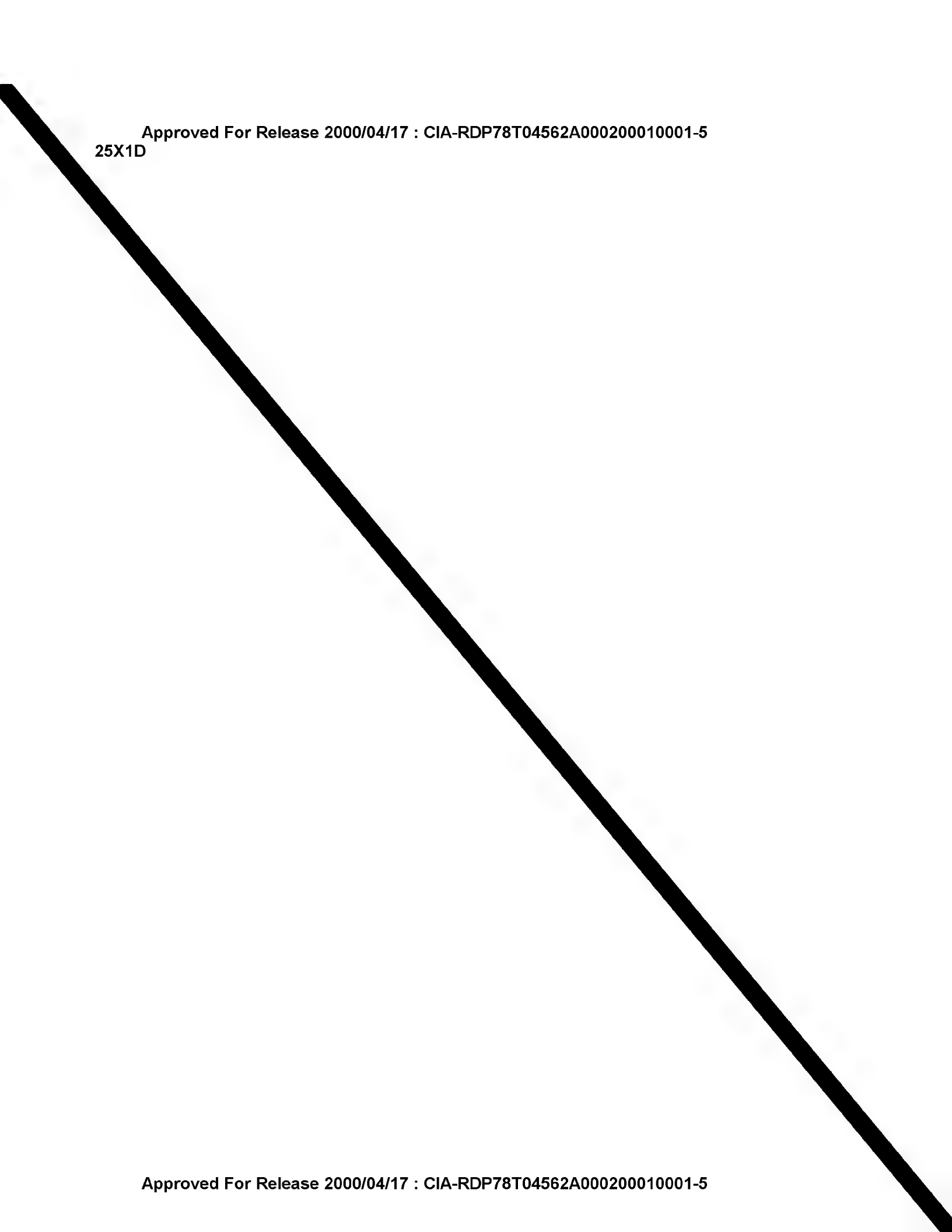
25X1A

AIR ORDER OF BATTLE:  
NONE DISCERNIBLE

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25X1D



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UNITED ARAB REPUBLIC  
NAVAL BASE FACILITIES

SIGNIFICANT RESULTS

AL ISKANDARIYAH NVB + HQ NATIONAL

25X1D 25X1D  
25X1A 31-11-███ N 029-52-███ E

STATUS: OCCUPIED

REMARKS:

THE COUNT OF MERCHANT SHIPS IS APPROXIMATELY 25 PERCENT ABOVE  
NORMAL.

NAVAL ORDER OF BATTLE:

███ -- IN INNER HARBOR

6 MEDIUM SS

3 PROB DD

15 SMALL COMBATANTS

21 MERCHANT SHIPS

███ -- IN OUTER HARBOR

2 MEDIUM SS (IN DRYDOCK)

5 TANKERS

49 CARGO VESSELS (4 WITH  
PROB LIGHTERS)

███ -- OUTSIDE THE BREAKWATER

1 DD (UNDERWAY)

5 TANKERS (1 UNDERWAY)

4 CARGO VESSELS

AS SUWAYS NAVAL BASE ADABIYAH

25X1A

25X1D 25X1D  
29-52-███ N 032-28-███ E

STATUS: DAMAGED

25X1A

REMARKS:

THE MOLE, QUAY, PIER, AND RAIL LINES APPEAR TO HAVE BEEN  
DAMAGED BY BOMBS OR ARTILLERY.

NAVAL ORDER OF BATTLE:

NONE DISCERNIBLE

TOP SECRET RUFF

TOP SECRET RUFF

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25X1D

UNITED ARAB REPUBLIC  
NAVAL BASE FACILITIES



25X1D

25X1D

BUR SAID NAVAL BASE

31-15- N 032-18- E

25X1D

25X1A

STATUS: OPERATIONAL

NAVAL ORDER OF BATTLE:

1 DD	2 PROB CARGO SHIPS
1 POSS AUXILIARY	1 LIGHTER
2 PROB POLNOCNY LSM	8 SMALL CRAFT

25X1D



25X1D

25X1D

SHARM ASH SHAYKH NAVAL DEPLOYMENT FAC

27-51- N 034-17- E

25X1D

STATUS: OPERATIONAL

25X1A

NAVAL ORDER OF BATTLE:

2 POSS LCM	1 MERCHANT SHIP
------------	-----------------

25X1D



TOP SECRET RUFF

TOP SECRET RUFF

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UNITED ARAB REPUBLIC  
GROUND FORCE FACILITIES

OTHER RESULTS-NO APPARENT CHANGE

25X1D AS SUWAYS PROB COASTAL DEFENSE SITE 25X1A 25X1D 25X1D  
29-49-██ N 032-28-██ E  
STATUS: UNKNOWN  
MISSILE ORDER OF BATTLE:  
NONE DISCERNIBLE  
25X1D

TOP SECRET RUFF

TOP SECRET RUFF

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MONGOLIA  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

25X1D

CHOYBALSAN AIRFIELD NORTHEAST

48-08-██ N 114-39-██ E

STATUS: OPERATIONAL

25X1A

25X1A

REMARKS:

THE RUNWAY, THE TAXIWAYS, AND THE DISPERSAL AREAS ARE CLEARED  
OF SNOW.

AIR ORDER OF BATTLE:

38 SMALL SWEEP-WING (AT  
LEAST)

1 PROB SMALL STRAIGHT-WING  
1 PROB HEAVY HELICOPTER

25X1D



TOP SECRET RUFF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

MONGOLIA  
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

25X1D CHOYBALSAN ARMY BKS SOUTH AL-5 25X1D 48-04-25X1D N 114-38-25X1D E  
STATUS: OCCUPIED 25X1A 25X1A

REMARKS:

CONSTRUCTION CONTINUES AT A RAPID RATE. THE INSTALLATION NOW CONTAINS 18 BARRACKS, 16 BARRACKS UNDER CONSTRUCTION, FIVE SUPPORT BUILDINGS, AND 63 BUILDING FOUNDATIONS. SNOW IS OBLITERATING SOME OF THE BUILDING FOUNDATIONS IN THE AREA, AND THE FIGURE GIVEN IS THE MINIMUM. FOUR TENT CAMPS CONTAINING 157 LARGE AND 15 MEDIUM TENTS ARE OBSERVED.

GROUND FORCE ORDER OF BATTLE:  
30 VEHICLES AND PIECES OF  
EQUIPMENT (APPROXIMATELY)

25X1D



TOP SECRET RUFF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SUDAN  
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D WADI SEIDNA AIRFIELD 25X1A 25X1D 25X1D  
15-49 N 032-30 E  
STATUS: OPERATIONAL 25X1A

REMARKS:  
THE SSW END OF THE NNE/SSW RUNWAY HAS BEEN EXTENDED 500 METERS  
(1,640 FEET) FOR A NEW LENGTH OF 2,950 METERS (9,678 FEET). AN  
ADDITIONAL 270-METER (886-FOOT) AREA IS BEING CLEARED AND  
GRADED FOR A POSSIBLE FURTHER EXTENSION OR FOR AN OVERRUN. A  
POSSIBLE RUNWAY OR TAXIWAY IS UNDER CONSTRUCTION IN THE SAME  
AREA. THE FIVE BADGER REPRESENT THE HIGH COUNT OF THIS TYPE OF  
AIRCRAFT. THE PREVIOUS HIGH WAS THREE BADGER IN

AIR ORDER OF BATTLE:  
5 BADGER

TOP SECRET RUFF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

SIGNIFICANT RESULTS

ALEYSK ICBM COMPLEX

25X1A

25X1D 25X1D  
52-29-██ N 082-42-██ E

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

SIXTEEN OF THE 30 SS-9 LAUNCH SITES, THE TRAINING SITE, THE RAIL-TO-ROAD TRANSFER POINT, THE COMPLEX SUPPORT FACILITY, AND THE HEADQUARTERS COMMAND AND CONTROL FACILITY ARE OBSERVED. NO NEW MISSILE ACTIVITY IS OBSERVED.

25X1D

BALTA MRBM COMPLEX

25X1A

25X1D 25X1D  
48-04-██ N 029-34-██ E

25X1D

STATUS: UNKNOWN

25X1A

REMARKS:

THE COMPLEX IS NOT OBSERVED. LESS THAN 15 PERCENT OF THE SEARCH AREA IS VISIBLE. NO TYPE IIID LAUNCH SITES ARE OBSERVED.

25X1D

DROVYANAYA ICBM COMPLEX

25X1A

25X1D 25X1D  
51-28-██ N 113-01-██ E

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL KNOWN ELEMENTS OF THE COMPLEX ARE OBSERVED EXCEPT FOR SIX SITES IN LAUNCH GROUP I. NO SIGNIFICANT ACTIVITY IS OBSERVED.

25X1D

TOP SECRET RUFF



TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

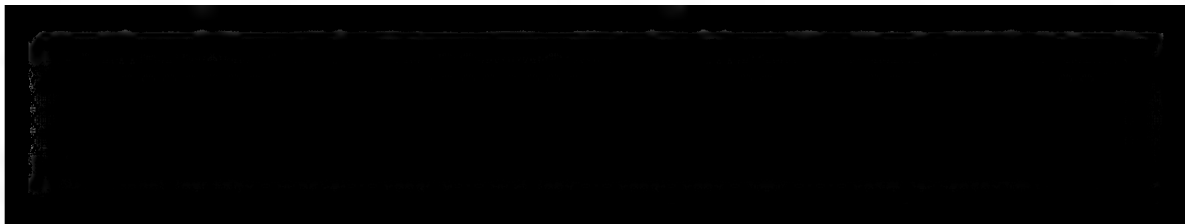
25X1D IMENI GASTELLO ICBM COMPLEX 25X1A 25X1D 25X1D  
51-03- [REDACTED] N 066-14- [REDACTED] E  
[REDACTED] 25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX ARE COVERED. CONSTRUCTION OF THE F GROUP IS NOW COMPLETE. NO NEW MISSILE ACTIVITY IS OBSERVED.

25X1D



25X1D KIVERTSY MRBM COMPLEX 25X1A 25X1D 25X1D  
50-56- [REDACTED] N 025-34- [REDACTED] E  
[REDACTED] 25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX EXCEPT LAUNCH SITE 3 ARE OBSERVED. ONLY THE WESTERN 50 PERCENT OF THE SEARCH AREA IS VISIBLE. NO SILO CONSTRUCTION IS OBSERVED.

25X1D



25X1D KOSTROMA ICBM COMPLEX 25X1A 25X1D 25X1D  
58-00- [REDACTED] N 041-22- [REDACTED] E  
[REDACTED] 25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX ARE OBSERVED, INCLUDING NINE NEWLY IDENTIFIED LAUNCH SITES IN THE Q GROUP, ONE NEWLY IDENTIFIED LAUNCH SITE IN THE P GROUP, AND LAUNCH SITE 102Q WHICH IS NOW CONFIRMED AND IN AN UNDETERMINED STAGE OF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

CONSTRUCTION. ALL LAUNCH SITES IN THE M, N, O AND P GROUPS ARE  
NOW COMPLETE.

DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE
104Q	5752N 04206E	UNDET
105Q	5748N 04204E	UNDET
107P	5728N 04132E	COMPLETE
108Q	5750N 04201E	UNDET
109Q	5759N 04210E	UNDET
110Q	5758N 04212E	UNDET
111Q	5755N 04215E	UNDET
112Q	5752N 04218E	UNDET
113Q	5749N 04210E	UNDET
114Q	5759N 04220E	UNDET

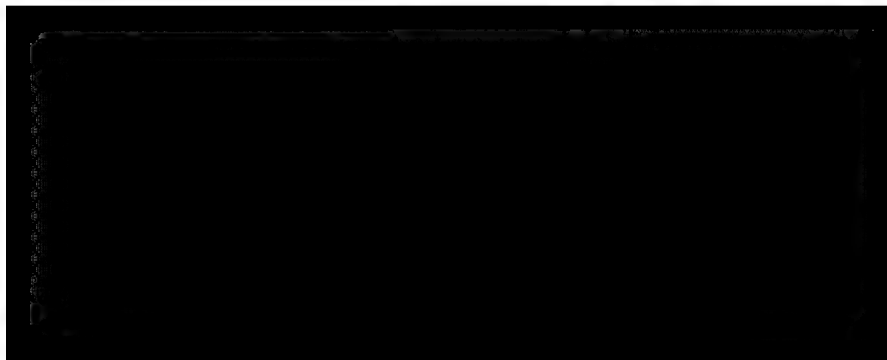
NOT  
PRESENT

FIRST  
SEEN

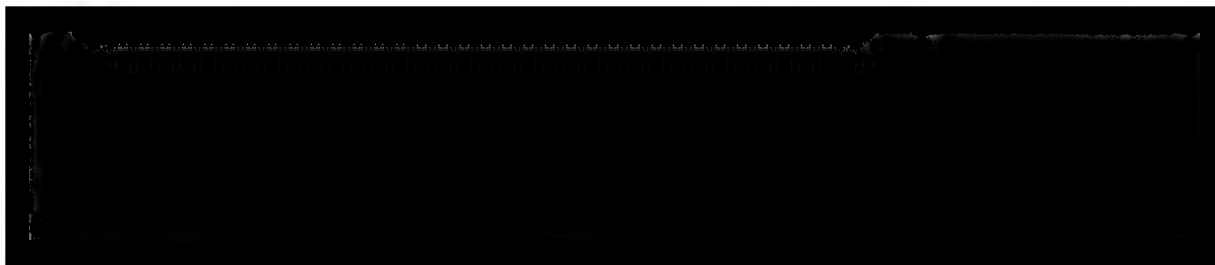


25X1D

25X1D



25X1D



25X1D

KREMOVO MRBM COMPLEX

25X1A

25X1D 25X1D  
44-00- N 132-23- E

STATUS: OPERATIONAL

25X1A

REMARKS:  
ALL ELEMENTS OF THE COMPLEX AND 75 PERCENT OF THE SEARCH AREA  
ARE COVERED. NO NEW SILOS ARE OBSERVED.

TOP SECRET RUFF

TOP SECRET RUFG

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

AT MANZOVKA SCALEBOARD LAUNCH SITE 1, A POSSIBLE BUILDING FOUNDATION EXCAVATION HAS BEEN DUG WITHIN THE LAUNCH SITE PARALLEL TO THE PREVIOUSLY REPORTED NEW ARCH-ROOFED BUILDING. NO OTHER CHANGES ARE OBSERVED.

25X1D



25X1D

25X1D

25X1D

OLOVYANNAYA ICBM COMPLEX

25X1A

50-59-N 115-57-E

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL COMPONENTS OF THE COMPLEX AND THE ENTIRE SEARCH AREA ARE COVERED. NO NEW MISSILE FACILITIES ARE OBSERVED.

25X1D



25X1D

25X1D

25X1D

PERVOMAYSK IRBM COMPLEX

25X1A

47-58-N 030-56-E

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL ELEMENTS OF THE COMPLEX EXCEPT TYPE IIID LAUNCH SITES 5, 6, 8, 11, 12, 14, 15, 16, 17, 23, POSSIBLE 32, POSSIBLE 35, 37, AND 38 ARE OBSERVED. EIGHT TYPE IIID LAUNCH SITES, DESIGNATED 39A, 40D, CONTROL SITE 41E, 42E, 43C, 44E, 45E, AND 46E, ARE NEWLY IDENTIFIED. POSSIBLE SITE 30C IS NOW CONFIRMED. CONSTRUCTION CONTINUES ON THE VISIBLE PART OF THE NEW RAIL-TO-ROAD TRANSFER POINT. SS-5-ASSOCIATED EQUIPMENT IS VISIBLE AT AT LEAST TWO OF THE THREE IRBM LAUNCH SITES.

DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE	NOT PRESENT	FIRST SEEN
39A	4801 N 3108 E	COMPLETE		
40D	4753 N 3104 E	COMPLETE		
41E	4820 N 3115 E	MID		

25X1D

25X1D

25

TOP SECRET RUFG

TOP SECRET RUSS

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D

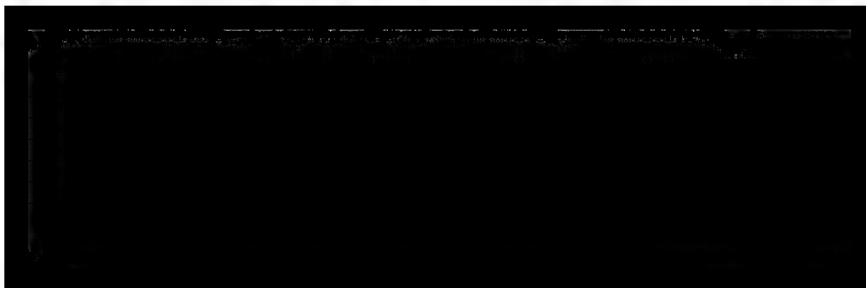
25X1D

25X1D

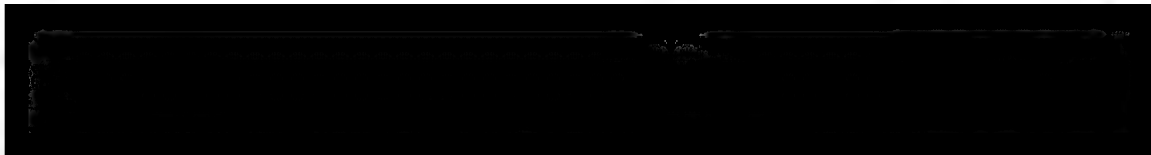
42E	4813	N	3106	E	MID
43C	4813	N	3030	E	MID
44E	4849	N	3002	E	MID
45E	4816	N	3111	E	MID
46E	4816	N	3117	E	MID



25X1D



25X1D



25X1D

SARY OZEK IRBM COMPLEX

25X1A

25X1D

25X1D

44-33- N 077-46- E

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL ELEMENTS OF THE LAUNCH COMPLEX, INCLUDING THE TWO SCALEBOARD SITES, ARE VISIBLE. NUMEROUS SUPPORT VEHICLES ARE AGAIN OBSERVED ALIGNED ON SEVERAL OF THE LAUNCH PADS AT SCALEBOARD SITE 1. AT LAUNCH SITE 1, FIVE POSSIBLE SS-5 MISSILES ON TRANSPORTERS, FOUR ERECTORS, AND SEVERAL SUPPORT VEHICLES ARE VISIBLE. NO NEW SILO CONSTRUCTION IS OBSERVED.

25X1D



25X1D

SVOBODNY ICBM COMPLEX

25X1A

25X1D

25X1D

51-52- N 128-16- E

25X1A

STATUS: OPERATIONAL

REMARKS:

TWENTY-SEVEN OF THE 60 SS-11 LAUNCH SITES AND TWO OF THE EIGHT

TOP SECRET RUSS

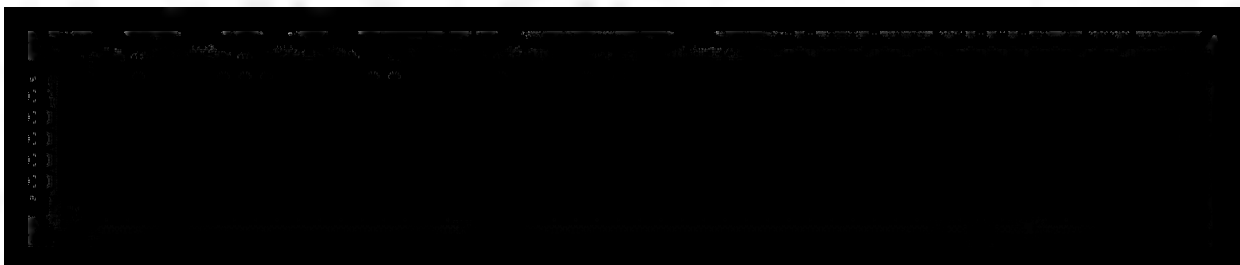
TOP SECRET RUFG

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

SS-7 SOFT SITES ARE OBSERVED. SITE 37 CAN BE IDENTIFIED ONLY.  
NO NEW MISSILE ACTIVITY IS OBSERVED.

25X1D



TEYKOVO ICBM COMPLEX

25X1A

25X1D 25X1D  
56-55- N 040-30- E

25X1D



25X1A

STATUS: OPERATIONAL

REMARKS:

25X1D

ALL KNOWN ELEMENTS OF THE COMPLEX ARE OBSERVED, INCLUDING THREE  
NEWLY IDENTIFIED SS-11 LAUNCH SITES. TWO OF THESE SITES,  
DESIGNATED 90G AND 91G, GIVE LAUNCH GROUP G ITS FULL COMPLEMENT  
OF TEN SITES. LAUNCH SITE 90G IS THE CONTROL SITE FOR THIS  
GROUP. THE THIRD NEW SITE, DESIGNATED 92H, IS THE NINTH SITE  
THUS FAR IDENTIFIED IN GROUP H. LAUNCH SITE 88G (IDENTIFIED  
AND REPORTED IN THE OAK FOR MISSION ) CAN NOW BE  
CONFIRMED. NO SIGNIFICANT ACTIVITY IS OBSERVED AT ANY OF THE  
SIX SS-7 SOFT SITES, THE RAILHEAD AND STORAGE AREA OF THE  
COMPLEX SUPPORT FACILITIES, OR THE RAIL-TO-ROAD TRANSFER POINT.  
NO OTHER NEW ACTIVITY IS OBSERVED.

DATA FOR THE NEW SITES --

LAUNCH SITE	GEOGRAPHIC COORDINATES	CONST STAGE	NOT PRESENT	FIRST SEEN
90G	5648N 04010E	MID		
91G	5641N 04012E	MID		
92H	5653N 03942E	MID		

25X1D

25X1D



25X1D



TOP SECRET RUFG

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES

25X1D



25X1D

25X1D

UMAN MRBM COMPLEX

25X1A

48-56-██ N 030-26-██ E

25X1D

STATUS: UNKNOWN

25X1A

REMARKS:

THE COMPLEX IS NOT OBSERVED. APPROXIMATELY 5 PERCENT OF THE SEARCH AREA IS VISIBLE. NO TYPE IIID LAUNCH SITES ARE OBSERVED.

25X1D



25X1D

25X1D

UZHUR ICBM COMPLEX

25X1A

55-15-██ N 089-30-██ E

25X1D

STATUS: OPERATIONAL

25X1A

REMARKS:

ALL COMPONENTS OF THE COMPLEX ARE OBSERVED. ONE SS-9 LAUNCH SITE IS NEWLY IDENTIFIED. THE SITE IS IN AN EARLY STAGE OF CONSTRUCTION AND IS DESIGNATED 56J, THE START OF A NEW LAUNCH GROUP. THE SITE IS AT 55-29N 090-16E. IT WAS NOT PRESENT IN ██████████ AND WAS FIRST SEEN IN ██████████. SUPPORT BUILDINGS FOR THE SITE ARE FIRST SEEN IN ██████████ AND WERE NOT PRESENT IN ██████████. NO OTHER NEW MISSILE-RELATED ACTIVITY IS OBSERVED.

25X1D

25X1D

25X1D

25X1D

PHOTOGRAPHIC REFERENCE FOR THE NEW SITE--

25X1D



TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2  
25X1D

SOVIET UNION  
DEPLOYED STRATEGIC SSM FACILITIES



25X1D

25X1D

VERKHNYAYA SALDA ICBM COMPLEX

58-10-███N 060-29-███E

25X1D



25X1A

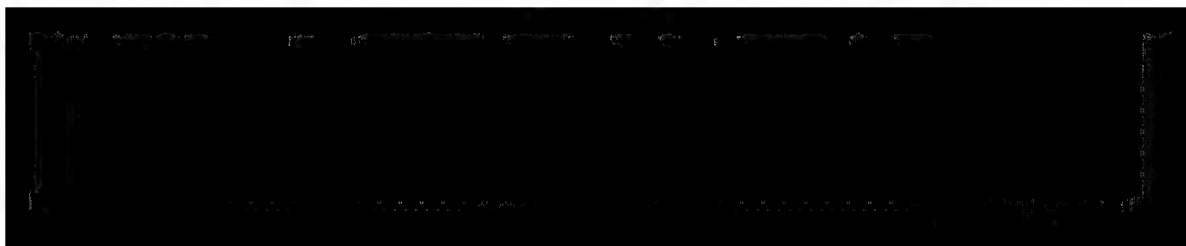
25X1A

STATUS: OPERATIONAL

REMARKS:

ALL COMPONENTS OF THE COMPLEX AND THE ENTIRE SEARCH AREA ARE COVERED. NO NEW MISSILE FACILITIES ARE OBSERVED.

25X1D



25X1D

25X1D

ZHANGIZ-TOBE ICBM COMPLEX

25X1A

49-13-███N 081-09-███E

25X1D



25X1A

STATUS: OPERATIONAL

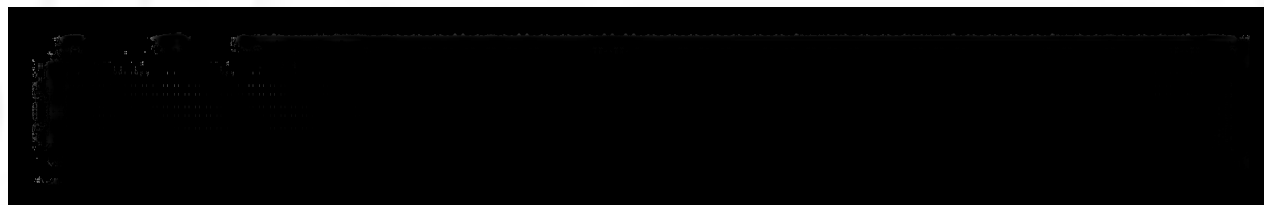
REMARKS:

ALL COMPONENTS OF THE COMPLEX ARE OBSERVED, INCLUDING ONE NEWLY IDENTIFIED SS-9 LAUNCH SITE, DESIGNATED 50H, IN LAUNCH GROUP H. THE SITE, AT 49-07N 081-52E, WAS NOT PRESENT ON ████ AND WAS FIRST SEEN ON ████ IN A MIDSTAGE OF CONSTRUCTION. THIS GIVES LAUNCH GROUP H ITS FULL COMPLEMENT OF SIX SITES. LAUNCH SITE 49H IS THE GROUP CONTROL SITE. ALL SIX SITES IN LAUNCH GROUP F ARE NOW COMPLETE. NO OTHER NEW MISSILE ACTIVITY IS OBSERVED.

25X1D

25X1D

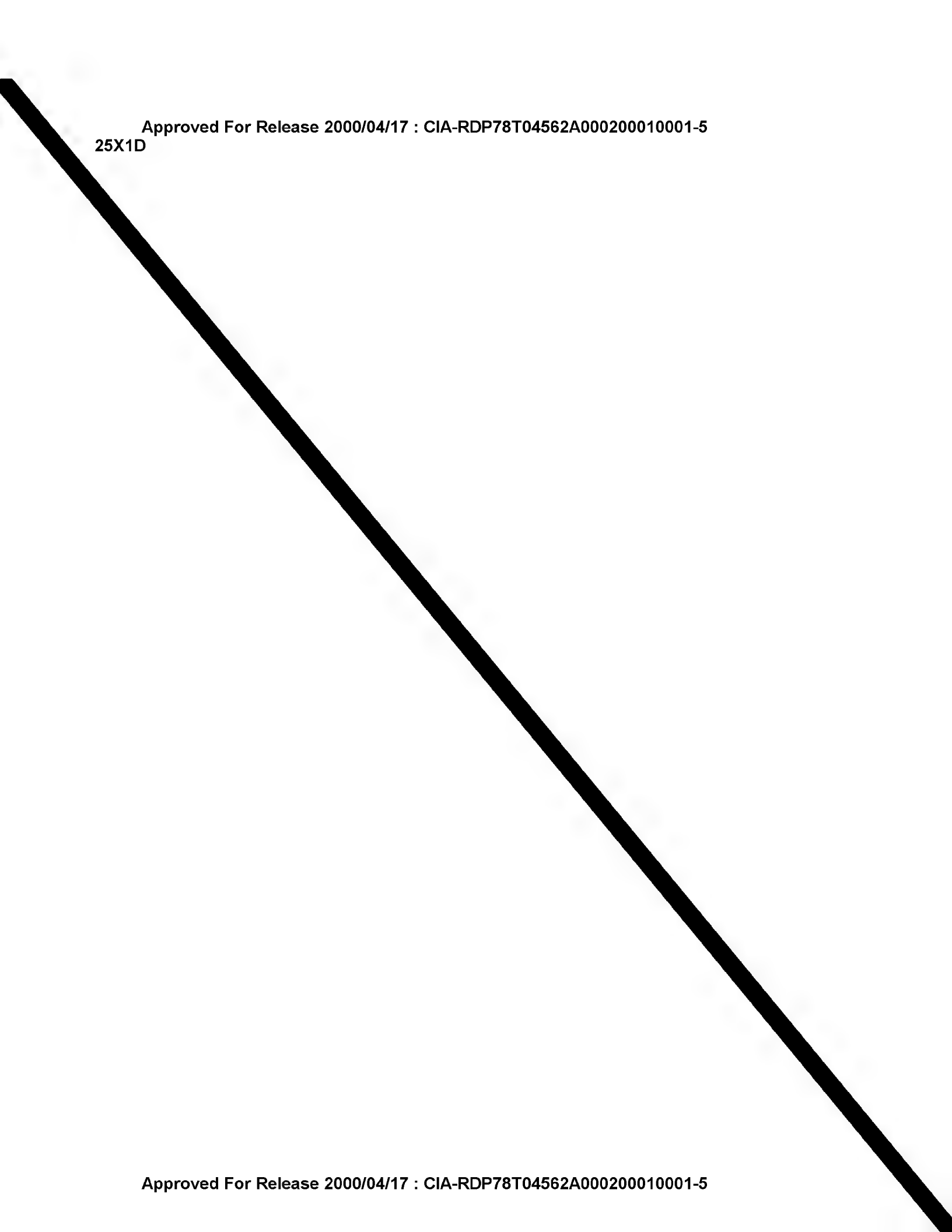
25X1D



25X1D



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25X1D



Approved For Release 2000/04/17 : CIA-RDP78T04562A000200010001-5



Handle Via

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Control System Only

TOP SECRET RUFG

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
MISSILE RANGES

### SIGNIFICANT RESULTS

25X1D KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR 25X1A 25X1D 25X1D  
48-42- N 046-00- E

STATUS: OPERATIONAL

25X1A

#### REMARKS:

ONLY THE KY/LAKE ELTON TRACKING FACILITY, L PATTERN TRACKING FACILITIES L-2A, L-2B, L-3, AND L-4, THE TURGAY INTERFEROMETER, AND THE EASTERN 30 PERCENT OF THE SEARCH AREA ARE COVERED. NO NEW MISSILE FACILITIES ARE OBSERVED.

25X1D

25X1D PLESETSK MISSILE AND SPACE CENTER 25X1D 25X1D  
62-56- N 040-37- E

STATUS: OPERATIONAL

25X1A

25X1A

#### REMARKS:

LAUNCH SITES 11, 15, AND 21 ARE OBSERVED, BUT THEY CAN BE IDENTIFIED ONLY. NO MISSILE-RELATED ACTIVITY IS OBSERVED IN CLOUD-FREE PORTIONS OF THE SEARCH AREA.

25X1D

25X1D SARY-SHAGAN MISSILE TEST CENTER 25X1D 25X1D  
46-11- N 072-41- E

STATUS: OPERATIONAL

25X1A

25X1A

#### REMARKS:

THE ENTIRE TEST CENTER WITH THE EXCEPTION OF TRACKING FACILITIES 15 AND 16 IS COVERED.

AT LAUNCH COMPLEX C, A NEW PROBABLE LAUNCH PAD, SIMILAR IN SIZE TO THE PAD AT LAUNCH POSITION C1, HAS BEEN CONSTRUCTED BETWEEN LAUNCH POSITION C1 AND THE INCOMPLETE LAUNCH POSITION C2.

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
MISSILE RANGES

25X1D AT LAUNCH COMPLEX D, AN ANTENNA IS UNDER CONSTRUCTION ON THE  
PROBABLE AZIMUTH-ELEVATION ANTENNA MOUNT ATOP TRY ADD BUILDING  
A. THE ANTENNA GIVES THE APPEARANCE OF HAVING A FLAT SURFACE  
AND IS NEARLY CIRCULAR IN SHAPE. HOWEVER, CERTAIN SEGMENTS OF  
THE ANTENNA PERIPHERY APPEAR TO BE STRAIGHT. MENSURATION OF  
THE ANTENNA SUBSTANTIATES THE LATTER IN THAT THE FLAT ANTENNA  
SURFACE HAS A MAXIMUM DIMENSION OF APPROXIMATELY 19.0 METERS  
(62 FEET) AND A MINIMUM DIMENSION OF APPROXIMATELY [REDACTED] 25X1D  
25X1D [REDACTED]. IN THE LAUNCH AREA, PROBABLE GALOSH  
LAUNCHER-ERECTORS HAVE BEEN EMPLACED AT LAUNCH POSITIONS D1 AND  
D2.

CONSTRUCTION ACTIVITY IS APPARENTLY CONTINUING AT LAUNCH  
COMPLEX F. HOWEVER, NO EVIDENCE OF ANY NEW AREAS OF ACTIVITY  
IS OBSERVED.

NO NEW MISSILE LAUNCH FACILITIES ARE OBSERVED.

25X1D



25X1D

25X1D

TYURATAM MISSILE TEST CENTER

45-56 [REDACTED] N 063-28 [REDACTED] E

25X1D



25X1A

25X1A

STATUS: UNKNOWN

25X1D

REMARKS:

25X1D

25X1D

25X1D

25X1D

THE ENTIRE TEST CENTER IS COMPLETELY COVERED ON [REDACTED]  
AND PARTIALLY COVERED ON [REDACTED] AT LAUNCH COMPLEX J, LITTLE  
IF ANY REPAIR HAS BEEN EFFECTED ON LAUNCH PAD J1. ON [REDACTED]  
BOTH TRANSPORTERS/ERECTORS ARE PARKED AT THE NORTH END OF THE  
VEHICLE ASSEMBLY BUILDING (VAB). ON [REDACTED] ONE  
TRANSPORTER/ERECTOR IS PARKED AT THE NORTH END OF THE VAB AND  
THE OTHER IS AT LAUNCH PAD J2 IN AN ERECTED POSITION. SHADOW  
ANALYSIS SUGGESTS THAT A PORTION OF A LAUNCH VEHICLE IS BEING  
ERECTED. THE ROTATING SERVICE TOWER IS PARKED IN THE  
AWAY-FROM-THE-PAD POSITION. ON [REDACTED] ONE  
TRANSPORTER/ERECTOR IS PARKED AT THE NORTH END OF THE VAB.  
LAUNCH PAD J2 IS CLOUD COVERED, BUT ENOUGH OF THE ROTATING

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
MISSILE RANGES

SERVICE TOWER CAN BE SEEN TO DETERMINE THAT THE TOWER IS AT THE PAD. CONSTRUCTION CONTINUES ON THE LARGE BUILDING AT THE SOUTH END OF THE VAB AND ROOFING IS IN PROGRESS.

AT LAUNCH AREA G3-G4, THE GANTRIES ARE PARKED TO THE REAR OF THE PADS ON ALL THREE DAYS. AT LAUNCH AREA G5-G6, THE GANTRY IS ON PAD G6 ON ALL THREE DAYS. AT THE POSSIBLE LAUNCH PAD AT LAUNCH AREA G1-G2, TWO STRUCTURES ARE UNDER CONSTRUCTION. ONE IS RECTANGULAR, APPROXIMATELY 34 X 12 METERS (112 X 39 FEET) AND IS IN THE EXCAVATION AND THE OTHER IS APPROXIMATELY 12 METERS (39 FEET) SQUARE AND AT THE EDGE OF THE EXCAVATION.

25X1D ON [REDACTED] A PROPELLANT LOADING OPERATION IS UNDERWAY AT THE  
25X1D NORTHERN SILO OF LAUNCH SITE I7 AND PROBABLE PROPELLANT  
VEHICLES ARE OBSERVED AT LAUNCH SITE I5. VEHICLES OR PIECES OF  
EQUIPMENT ARE OBSERVED AT BOTH SITES ON [REDACTED]  
AN SS-11 SILO LOADER IS POSITIONED NEAR THE SILO AT LAUNCH SITE  
L7 AND A PROBABLE TRANSPORTER IS PARKED ON THE TURN-AROUND  
PORTION OF THE ACCESS ROAD. NO OTHER SIGNIFICANT MISSILE  
ACTIVITY IS OBSERVED.

25X1D



TOP SECRET RUFF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
AIR DEFENSE MISSILES

SIGNIFICANT RESULTS

25X1D  
KORDON SAM TRAINING CENTER 25X1A

25X1D 25X1D  
47-25- [REDACTED] N 048-03- [REDACTED] E

STATUS: OCCUPIED

25X1A

REMARKS:

25X1D  
ACTIVITY AT THE LAUNCH AREA IS AT A LOW LEVEL. ONLY SIX SAM  
SITES ARE OCCUPIED. AT THE TROPOSCATTER FACILITY, TWO PAIRS OF  
ANTENNAS ARE NOW VISIBLE (THE PAIR REMOVED IN [REDACTED] HAS  
APPARENTLY BEEN REPLACED). ONE OF THE TWO BUILDINGS PREVIOUSLY  
REPORTED UNDER CONSTRUCTION AT THE HEADQUARTERS AND HOUSING  
FACILITY IS COMPLETE. NUMEROUS PIECES OF EQUIPMENT AND  
VEHICLES ARE OBSERVED THROUGHOUT THE AREA.



TOP SECRET RUFF

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SOVIET UNION  
AIR BASE FACILITIES

## SIGNIFICANT RESULTS

51-10-[REDACTED] N 128-26-[REDACTED]

35  
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TOP SECRET RUFF

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Talent-KEYHOLE  
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TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

SIGNIFICANT RESULTS

BARANO-ORENBURGSKOYE ARMY BKS AL 1

25X1D 25X1D  
44-21- N 131-26- E

25X1D  
STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:  
10 VEHICLES OR PIECES OF  
EQUIPMENT (AT LEAST)

25X1D  
[REDACTED]

BEZRECHNAYA ARMY BARRACKS AL 1

25X1D 25X1D  
50-43- N 116-10- E

25X1D  
STATUS:OCCUPIED

25X1A

25X1A

REMARKS:

25X1D  
25X1D  
THE PRESENT COUNT OF 40 COCOONED TANKS REPRESENTS A DECREASE OF  
AT LEAST 100 SUCH TANKS. FIVE LARGE VEHICLE STORAGE SHEDS HAVE  
BEEN CONSTRUCTED IN THE TANK STORAGE AREA SINCE [REDACTED] FOUR  
OF THESE SHEDS WERE COMPLETED BY [REDACTED] THE FIVE SHEDS HAVE A  
COMBINED CAPACITY FOR SHELTERING APPROXIMATELY 300 TANKS.

TWO TANK OR ASSAULT GUN FIRING RANGES ARE ACTIVE, AND RECENT  
TRACKAGE IS OBSERVED THROUGHOUT THE AREA.

GROUND FORCE ORDER OF BATTLE:

40 COCOONED TANKS  
(APPROXIMATELY)

500 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D  
[REDACTED]

FRUNZE MILITARY BARRACKS AL 2

25X1D 25X1D  
42-52- N 074-30- E

25X1D  
STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:  
75 VEHICLES (AT LEAST)

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

25X1D



25X1D

25X1D

25X1D Khabarovsk ARTY ENGR DPO DO 2

48-21-██ N 135-02-██ E

STATUS: OCCUPIED

25X1A

25X1A

REMARKS:

CONSTRUCTION CONTINUES ON THE POSSIBLE MISSILE-RELATED FACILITY. ALL FIVE ARCH-ROOFED BUILDINGS ARE NOW EARTH COVERED. THE LARGE VEHICLE STORAGE BUILDING APPEARS TO BE COMPLETE AND ANOTHER PROBABLE VEHICLE STORAGE BUILDING IS UNDER CONSTRUCTION. CONSTRUCTION CONTINUES ON THE WALL AROUND THE VEHICLE PARKING AREA.

IMMEDIATELY EAST OF THE MAIN STORAGE AREA, THREE LARGE WAREHOUSE-TYPE BUILDINGS AND THREE STORAGE BUILDINGS HAVE BEEN CONSTRUCTED. ONE LARGE WAREHOUSE BUILDING AND TWO STORAGE BUILDINGS ARE UNDER CONSTRUCTION.

GROUND FORCE ORDER OF BATTLE:  
1,000 VEHICLES OR PIECES OF  
EQUIPMENT

25X1D



25X1D

25X1D

25X1D LERMONTOVKA ARMY BARRACKS AL 1

47-09-██ N 134-20-██ E

STATUS: OCCUPIED

25X1A

25X1A

REMARKS:

CONSTRUCTION CONTINUES ON THE BARRACKS AND THE VEHICLE SHEDS.

GROUND FORCE ORDER OF BATTLE:

91 PROB TANKS	50 PROB ARTILLERY PIECES
60 PROB TRACKED ARTILLERY	350 VEHICLES OR PIECES OF
TRACTORS (APPROXIMATELY)	EQUIPMENT (APPROXIMATELY)

25X1D



TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

25X1D

[REDACTED]

25X1D

25X1D

25X1D

MAKANCHI ARMY BKS AL-1

25X1A

46-47- [REDACTED] N 082-01- [REDACTED] E

STATUS:OCCUPIED

25X1A

REMARKS:

TWO BUILDINGS ARE STILL IN EARLY STAGES OF CONSTRUCTION.

GROUND FORCE ORDER OF BATTLE:  
75 VEHICLES (AT LEAST)

25X1D

[REDACTED]

25X1D

25X1D

25X1D

OTAR ARMY BARRACKS NORTH AL 1

43-34- [REDACTED] N 075-12- [REDACTED] E

STATUS:OCCUPIED

25X1A

25X1A

REMARKS:

THE THREE ARCH-ROOFED BUILDINGS IN THE POSSIBLE  
MISSILE-ASSOCIATED AREA ARE NOW EARTH COVERED. THE LARGEST  
BUILDING IN THE AREA IS NOW COMPLETE, AND THE AREA IS  
COMPLETELY FENCED.

GROUND FORCE ORDER OF BATTLE:  
300 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED]

25X1D

25X1D

25X1D

PANFILOV ARMY BARRACKS NORTHWEST AL 2

44-10- [REDACTED] N 079-59- [REDACTED] E

STATUS:OCCUPIED

25X1A

25X1A

GROUND FORCE ORDER OF BATTLE:  
110 VEHICLES (AT LEAST)



TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2  
25X1D

SOVIET UNION  
GROUND FORCE FACILITIES



25X1D 25X1D

25X1D

SARY-OZEK ARMY BARRACKS AL 1

44-21- N 077-57- E

25X1A

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:  
150 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D



25X1D 25X1D

25X1D

TSUGOL MIL AREA WEST

25X1A

51-02- N 115-37- E

STATUS:OCCUPIED

25X1A

REMARKS:

AREA 3 NOW APPEARS TO BE A STANDARD SOVIET REGIMENTAL AREA.  
RECENT TRACKAGE IS EVIDENT THROUGHOUT THE AREA.

GROUND FORCE ORDER OF BATTLE:  
500 VEHICLES AND PIECES OF  
EQUIPMENT (APPROXIMATELY)

25X1D



25X1D 25X1D

25X1D

TSUGOL TNG AREA 1

25X1A

51-07- N 115-31- E

STATUS:OCCUPIED

25X1A

REMARKS:

RECENT TRACKAGE IS EVIDENT THROUGHOUT THE TRAINING AREA. THE  
AREA CONTAINS THREE TANK OR ASSAULT GUN FIRING RANGES, EACH OF  
WHICH HAVE MOVING TARGETS AND THREE FIRING LANES. ALL FIRING  
RANGES AND DRIVER-TRAINING AREAS ARE ACTIVE. A TENT CAMP WITH  
AT LEAST 120 PYRAMIDAL TENTS IS OBSERVED IN THE CENTER OF THE

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

TRAINING AREA.

GROUND FORCE ORDER OF BATTLE:  
150 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED]

25X1D

25X1D

25X1D

UCH-ARAL ARMY BARRACKS

25X1A

46-09-[REDACTED] N 080-57-[REDACTED] E

STATUS:OCCUPIED

25X1A

REMARKS:

25X1D

THE VEHICLE STORAGE SHED OBSERVED IN [REDACTED] IS  
COMPLETE. FIVE BUILDINGS NW OF THE MAIN AREA ARE IN MIDSTAGES  
OF CONSTRUCTION.

GROUND FORCE ORDER OF BATTLE:  
150 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED]

25X1D

25X1D

25X1D

ULAN UDE ARMY BKS AL-3

51-51-[REDACTED] N 107-53-[REDACTED] E

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:  
400 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

[REDACTED]

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

25X1D

ULAN-UDE ARMY BKS DIVIZIONNAYA AL 1

25X1D 25X1D  
51-53- [REDACTED] N 107-31- [REDACTED]

STATUS:OCCUPIED

25X1A

REMARKS:  
THE TRAINING AREAS ARE ACTIVE.

GROUND FORCE ORDER OF BATTLE:  
150 TANKS (AT LEAST)  
800 VEHICLES AND PIECES OF  
EQUIPMENT (AT LEAST)

25X1D

25X1D

VARFOLOMEYEVKA ARMY BARRACKS AL-1

25X1A 25X1D 25X1D  
44-16- [REDACTED] N 133-24- [REDACTED]

STATUS:OCCUPIED

GROUND FORCE ORDER OF BATTLE:  
200 PROB ARTILLERY PIECES 150 VEHICLES OR PIECES OF  
(AT LEAST) EQUIPMENT (APPROXIMATELY)

25X1D

25X1D

ZAVITINSK MILITARY BARRACKS AL 1

25X1D 25X1D  
50-05- [REDACTED] N 129-26- [REDACTED]

25X1A

25X1A

STATUS:OCCUPIED

REMARKS:  
CONSTRUCTION CONTINUES ON ONE PROBABLE BARRACKS AND A STORAGE  
BUILDING IN THE NE BARRACKS AREA. THREE STORAGE BUILDINGS AND  
FIVE PROBABLE QUONSET-TYPE BUILDINGS HAVE BEEN CONSTRUCTED IN  
THE WESTERN PART OF THE INSTALLATION.

GROUND FORCE ORDER OF BATTLE:  
250 VEHICLES OR PIECES OF

TOP SECRET RUFF

TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
GROUND FORCE FACILITIES

EQUIPMENT (APPROXIMATELY)

25X1D



OTHER RESULTS-NO APPARENT CHANGE

25X1D

NOVOGEORGIYEVKA ARMY BARRACKS AL 1

25X1D

25X1D

44-01-██ N 131-23-██ E

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D



25X1D

25X1D

25X1D

SERGEYEVKA ARMY BARRACKS AL 1

44-19-██ N 131-40-██ E

STATUS:OCCUPIED

25X1A

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE

25X1D



25X1D

25X1D

25X1D

ZANADVOROVKA ARMY BKS NORTHWEST AL 1

43-18-██ N 131-35-██ E

STATUS:OCCUPIED

25X1A

REMARKS:  
THE BARRACKS AREA IS CLOUD COVERED, AND ONLY THE FIRING RANGE  
WEST OF THE BARRACKS AREA IS COVERED ON PHOTOGRAPHY.

GROUND FORCE ORDER OF BATTLE:  
NONE DISCERNIBLE

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25X1D

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TCS-20064/70 - IPIR 5  
KH-4 MISSION 1109-2

SOVIET UNION  
INDUSTRY

### SIGNIFICANT RESULTS

25X1D Leningrad Shipyard Baltiysk Ordzh 189

25X1D 59-55-███N 030-15-███E  
25X1D

STATUS: OPERATIONAL

25X1A

25X1A

#### REMARKS:

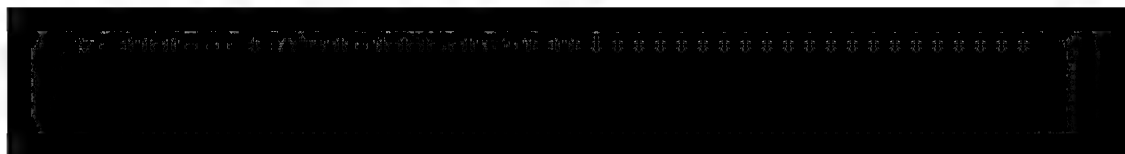
25X1D THE SSES REMAINS MOORED AT THE FITTING-OUT QUAY AT POSITION 13. TWO LARGE 26-METER (85-FOOT) DISH ANTENNAS AND TWO SMALLER  
██████████ ANTENNAS ARE OBSERVED ON THE EAST SIDE OF BUILDINGWAY 21. A LARGE MERCHANT VESSEL IS UNDER CONSTRUCTION ON BUILDINGWAY 21. A SMALLER VESSEL OF UNDETERMINED TYPE IS ON BUILDINGWAY 17. THE STERN OF ANOTHER VESSEL OF UNDETERMINED TYPE IS ON BUILDINGWAY 16.

#### NAVAL ORDER OF BATTLE:

1 SSES AT POSITION 13	1 PROB BARGE
3 VESSELS UNDER CONSTRUCTION	1 FLOATING CRANE
2 MERCHANT SHIPS AT THE QUAY	

#### ASSOCIATED OBJECTS:

4 PARABOLIC DISH ANTENNAS



## **Attachments**



MUCHAI SSM LAUNCH SITE, CHINA



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KH-4 MISSION 1109-2, 12-23 MARCH 1970

TABLE 1. DEPLOYED ICBM COMPLEXES AND TYURATAM MTC

COMPLEX	SS-7	SS-8	SS-9	SS-11	SS-13	OTHER	*TOTAL	LAUNCH GROUPS	LAUNCHERS		
	TYPE IIA, B & D & IIIA	TYPE IIC & IIIB	TYPE IIIC	TYPE IIID	TYPE IIIE	UNDET TYPE		IDENTIFIED	NEW THIS MISSION	DROPPED THIS MISSION	
	LAUNCHERS		LAUNCHERS								COMPLETE
	SITES										
★ ALEYSK			30				30	5	4		
★ DOMBAROVSKIY			60				60	10	7		
★ DROVYANAYA	6	15		50			65	5	5		
★ GLADKAYA	3	7		60			67	6	6		
★ IMENI GASTELLO			48				48	8	6		
★ ITATKA	3	6					6				
★ KARTALY			36				36	6	5		
★ KOSTROMA	7	15		90			105	9	8	10	
★ KOZELSK		5	12		110		122	11	10	7	
★ NOVOSIBIRSK	5	12					12				
★ OLOVYANNAYA	3	9		90			99	9	9		
OMSK		1	3				3				
★ PERM	6	13		70			83	7	6		
★ PLESETSK MSC	3	7	2	4			**11				
SHADRINSK	3	9					9				
★ SVOBODNY	8	17		60			77	6	6		
TATISHCHEVO				120			120	12	12		
★ TEYKOVO	6	12		79			91	8	6	19	
TYUMEN		2	4				4				
★ UZHUR			55				55	10	8	1	
★ VERKHNYAYA SALDA	9	20					20				
YEDROVO	8	18		102			120				
★ YOSHKAR-OLA	6	12			60		72	6	2	5	
★ YURYA	11	25					25				
★ ZHANGIZ-TOBE			48				48	8		1	
TOTALS	87	197	10	23	277	831	60	1388	137	113	43

★ TYURATAM MTC	TOTAL LAUNCHERS INCLUDED 17 SSM R&D SPACE LAUNCH POSITIONS	73 (#1)		(#1)	
PLESETSK MSC	**NOT INCLUDED ARE THE 8 TYPE I, 6 OTHER TYPE II, 10 TYPE IIIE AND 3 UNDETERMINED TYPE III LAUNCH POSITIONS	**11			

\*TOTAL DOES NOT INCLUDE THE TRAINING SITE AT  
THE 17 SINGLE-SILO COMPLEXES NOR THE TYPE IIID  
LAUNCH SITES AT THE DERAZHNYA MRBM COMPLEX  
AND THE PERVOMAYSK IRBM COMPLEX.

★ COVERED THIS MISSION  
(#) POSSIBLE (NOT INCLUDED IN COUNT)

KH-4 MISSION 1109-2, 12-23 MARCH 1970

TABLE 2. SOVIET MRBM AND IRBM DEPLOYMENT

GEOGRAPHIC AREA	SOFT MRBM LAUNCH SITES	SOFT IRBM LAUNCH SITES	HARD MRBM LAUNCH SITES	HARD IRBM LAUNCH SITES	TOTAL LAUNCH SITES	TOTAL LAUNCH POSITIONS
WESTERN	105	10*	18	10	143	560***
CAUCASUS	3		2	3	8	29
CENTRAL ASIA	2	1	1	3	7	25
FAR EASTERN	6	1		1	8	35
TOTALS	116	12	21	17	166	649**

Totals do not include 104 fixed field-type sites with total of 389 launch positions and one launch facility at Sovetskaya Gavan

\*One only has 2 pads

\*\*Totals do not include the 64 launch positions at Gvardeysk, Simferopol, Barano-Orenburgskoye Balta (1 site), Uman (2 sites).

Paplaka, Mukachevo, Derazhnya

(2 Sites) & Ugolnyy Complexes which are inactive

\*\*\*Totals do not include 41 Type III D Launch Sites (2 Possible) at Pervomaysk IRBM Complex and 27 Type III D Launch Sites (1 Possible) at Derazhnya MRBM Complex

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